NAME OF THE WORK: Package-1, includes 10 works of Rs.80.00 Lakhs:1) Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 2)Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division 3)Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division 4)Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division 5)Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6)Maintenance of community property including parks in ward no 07 byatarayanapura 7)Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8)Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9)Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10)Desilting of Storm Water Drains in ward no:07 Byatarayanapura

EMB

Third and Final Bill

Measurement Sheet

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Package-1, includes 10 works of Rs.80.00 Lakhs 1) Addition and alteration works and construction of Ti[illegible] Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 2)Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout. in Ward no.06 Byatarayanapura Sub Division 3)Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division 4)Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division 5)Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6)Maintenance of community property including parks in ward no 07 byatarayanapura 7)Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8)Maintenance of general/public toilets in Ward No. 07 Byatarayanapura. 9)Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10)Desilting of Storm Water Drains in ward no:07 Byatarayanapura

MEASUREMENT SHEET

Third & Final Bill

Client	Sri Gopi Reddy, #03, 1st cross, 1st main, Ramachandrappa layout, Veeranna palya, Arabic college(P), Bangalore-560045									
Chainage in m From / To	Description of Item	Unit	No	L (m)	B (m)	D (m)	Qty	Rate (Rs)	Amount (Rs)	Remarks
Item No.2	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No. KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2016-17									
	Cum									
	Vide Total executed Quantity from premeasurement Page no. 01						221.13			
	Total executed quantity						221.13			
	Tender Quantity						61.23			
	Quantity upto 125%						76.54			
	Quantity Above 125%						144.59			
	DPQ Quantity Paid in 1st RA Bill						22.50			
	Now to be Paid Quantity									
	Page-01 Quantity upto125%						54.04	191.00	10321.16	
	QuantityAbove 125%						144.59	302.38	43722.21	
Item No.3	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 7.5 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17 With Area Weightage @ 8%									
	Cum									
	Vide Total executed Quantity from premeasurement Page no. 02						58.97			
	Total executed quantity						58.97			
	Tender Quantity						2.09			
	Now to be Paid Quantity									
	Quantity upto 125%						2.61	4922.00	12858.73	
	Quantity Above 125%						56.36	5159.71	290801.47	
Item No.4	With Area Weightage @ 6%									
	Cum									
	Vide Total executed Quantity from premeasurement Page no. 03						58.65			
	Total executed quantity						58.65			
	Tender Quantity						58.00			
	Qty Ltd to						58.00			
	(-) DPQ Quantity Paid in 1st RA Bill						37.35			

To be paid 2065 * 5064 = 104572.00

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

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Chainage in m	Description of Item	Unit	No	L (m)	B (m)	D (m)	Qty	Rate (Rs)	Amount (Rs)	Remarks
	Now to be Paid Quantity						20.65	5064.00	104571.60	
Item No.5	KSRB 5.2-2 Providing and constructing granite / trap / basalt rubble stone masonry in foundation with mud mortar I S. stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.5/ PWD SR 2016-17									
		Cum								
	Vide Total executed Quantity from premeasurement Page no. 04						70.74			
	Total executed quantity						70.74			
	Tender Quantity						25.28			
	DPQ Quantity Paid in 1st RA Bill						1.40			
	Now to be Paid Quantity									
	Quantity upto 125%						31.60	4082.00	128991.20	
	Quantity Above 125%						39.14	4544.84	177884.89	177883.00
Item No.7	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2016-17									
		Cum								
	Vide Total executed Quantity from premeasurement Page no. 05						13.07			
	Total executed quantity						13.07			
	Tender Quantity						5.05			
	Quantity upto 125%						6.31			
	Quantity Above 125%						6.76			
	DPQ Quantity Paid in 1st RA Bill						3.60			
	Now to be Paid Quantity								16474.00	
	Quantity upto125%						2.71	6079.00	16489.29	
	QuantityAbove 125%						6.76	5723.01	38684.00	38687.00
Item No.8	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2016-17									
		tonne								
	Vide Total executed Quantity from premeasurement Page no. 06						1.68			
	Calculation sheet for Total executed quantity						1.68			
	Sl.6 - Page Tender Quantity						0.38			
	Quantity upto 125%						0.48	61292.00	29113.70	29420.00
	Quantity Above 125%						1.20	78889.42	95046.38	94667.00

CONTRACTOR

30.10.24
ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

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Chainage in m	Description of Item	Unit	No	L (m)	B (m)	D (m)	Qty	Rate (Rs)	Amount (Rs)	Remarks
Item No.13	KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Page No. 110/ Item No. 15.21 PWD SR 2016-17									
Measurements taken on										
	Quantity Measured in 1st RA Bill						344.05			
	Present Bill Measurements									
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Internal Plastering									
	Gents Toilet									
	Along long direction	Sqm	2	1.4		1.20	3.36			
	Along short direction	Sqm	2	1.3		1.20	3.12			
	Ladies Toilet									
	Along long direction	Sqm	2	1.55		3.30	10.23			
	Along short direction	Sqm	2	1.3		3.30	8.58			
	Deduction									
	D3	Sqm	-2	0.75		2.10	-3.15			
	Ceiling									
	Gents Toilet	Sqm	1	1.30		1.40	1.82			
	Ladies Toilet	Sqm	1	1.55		1.30	2.02			
						Sub Total	25.98			
						Total executed quantity	370.03			
						Modified Schedule B quantity	370.03			
						DPQ Quantity Paid in 1st RA Bill	344.05			
						Now to be Paid Quantity	25.98	195.00	5065.13	
Item No.14	KSRB 15-3.7:- Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.15/ PWD SR 2016-17									
Measurements taken on										
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	External plastering									
	Along long direction	Sqm	1	3.25		3.6	11.70			
	Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in ward no 06 Byatarayanapura Sub Division									
	External plastering									
	For compound wall	Sqm	2	131		1.35	353.70			
						Total executed quantity	365.40			
						Tender Quantity	55.40			
						Now to be Paid Quantity				
						Quantity upto 125%	69.25	247.00	17104.75	
						Quantity Above 125%	296.15	279.12	82662.01	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

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Chainage in m	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount	Remarks
Item No.17	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.29.2/ PWD SR 2016-17									
		Sqm								
	Vide Total executed Quantity from premeasurement Page no.						4.88			
	Total executed quantity						4.88			
	Modified Schedule B quantity						4.88			
	Now to be Paid Quantity						4.88	556.00	2710.50	
Item No.20	KSRB 15.15.3: Providing and applying painting in one coat with plastic emulsion paint of approved brand and manufacture on wall surface to give an even approved shade after thoroughly brushing the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth cost of materials, labour, complete as per specifications. Page No.114/ Item No. 15.52 / PWD SR 2016-17									
Measurements taken on										
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Toilet building	Sqm		Same as Internal plastering			25.98			
	Out Side Painting	Sqm	2	10.66		9.00	191.88			
		Sqm	2	15.60		9.00	280.8			
	Deduction									
	Ventilator	Sqm	-1	2.85		0.75	-2.14			
		Sqm	-1	2.55		0.75	-1.91			
		Sqm	-1	2.60		0.75	-1.95			
		Sqm	-1	2.60		0.75	-1.95			
		Sqm	-1	2.90		0.75	-2.18			
	Front side opening	Sqm	-1	5.10		4.00	-20.40			
		Sqm	-1	5.10		4.00	-20.40			
	D1	Sqm	-2	1.00		2.10	-4.20			
	W	Sqm	-1	1.15		1.45	-1.67			
		Sqm	-2	0.90		2.00	-3.60			
	Total executed quantity						438.26			
	Tender Quantity						73.74			
	Now to be Paid Quantity								41148.00	
	Quantity upto 125%						92.18	45.00	4147.88	
	Quantity Above 125%						346.09	56.63	19600.14	19598.00
Item No.23	SKSRB 15-16 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to given an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. Page No. 114/ Item No. 15.53.2 / PWD SR 2016-17									
Measurements taken on										
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	External painting	Sqm	1	3.25		3.6	11.70			
	External Painting									

Executive Engineer 30/10/2024

CONTRACTOR

ASSISTANT ENGINEER 30.10.2024

ASSISTANT EXECUTIVE ENGINEER 30/10/2024

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Chainage in m	Description of Item	Unit	No	L (m)	B (m)	D (m)	Qty	Rate (Rs)	Amount (Rs)	Remarks
	Outside portion	Sqm	2	15.9		9.00	286.2			
		Sqm	2	10.9		9.00	196.2			
	Column sides	Sqm	6	0.28		2.00	3.36			
		Sqm	5	0.28		2.00	2.8			
	Outside room	Sqm	1	3.55		3.10	11.01			
	Toilet portion(outside)	Sqm	1	2.05		2.90	5.95			
	Deduction									
	Ventilator	Sqm	-1	2.85		0.75	-2.14			
		Sqm	-1	2.55		0.75	-1.91			
		Sqm	-1	2.60		0.75	-1.95			
		Sqm	-1	2.60		0.75	-1.95			
		Sqm	-1	2.90		0.75	-2.18			
	Front side opening	Sqm	-1	5.1		4.00	-20.40			
		Sqm	-1	5.1		4.00	-20.40			
	D	Sqm	-1	1		2.10	-2.10			
	D1	Sqm	-2	1		2.1	-4.20			
	W	Sqm	-1	1.15		1.45	-1.67			
		Sqm	-2	0.9		2	-3.60			
	Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in ward no 06 Byatarayanapura Sub Division									
	Compound wall	Sqm	Same as External plastering				353.70			
			Total executed quantity				808.42			
			Tender Quantity				722.10			
			Now to be Paid Quantity							
			Quantity upto 125%				808.42	85.00	68715.49	
Item No.32	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17									
		Cum								
	Vide Total executed Quantity from premeasurement Page no. 08						35.87			
			Total executed quantity				35.87			
			Modified Schedule B quantity				35.87			
			DPQ Quantity Paid in 2nd RA Bill				21.46			
			Total executed quantity				14.41	4922.00	70926.02	
Item No.41	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2018-19									
		Sqm								
	Vide Total executed Quantity from premeasurement Page no. 09						428.34			
			Total executed quantity				428.34			
			Tender Quantity				420.00			
			Quantity upto 125%				428.34			
			DPQ Quantity Paid in 1st RA Bill				420.00			
			Now to be Paid Quantity							
			Quantity upto 125%				8.34	290.00	2418.6	

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

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Chainage in m	Description of Item	Unit	No	L (m)	B (m)	D (m)	Qty	Rate (Rs)	Amount (Rs)	Remarks
Item No.50	KSRB- 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1.4.2.pg No. 13/ Item No. 4.5									
		Cum								
	Vide Total executed Quantity from premeasurement Page no. 10						21.30			
	Total executed quantity						21.30			
	Tender Quantity						3.60			
	Now to be Paid Quantity									
	Quantity upto 125%						4.50	5288.00	23796	
	Quantity Above 125%						16.80	5388.27	90543.15	90523.00
Item No.55	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-25. Item No. 5.6)									
		Cum								
	Vide Total executed Quantity from premeasurement Page no. 11						29.75			
	Total executed quantity						29.75			
	Tender Quantity						29.16			
	Quantity upto 125%						29.75			
	DPQ Quantity Paid in 1st RA Bill						28.19			
	Now to be Paid Quantity						1.56			
	Quantity upto 125%						1.57	4562.00	7144.09	
Item No.70	KSRB 14.14-5 : Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. ceramic tiles 400X400X20mm									
Measurements taken on										
	Quantity Measured in 1st RA Bill						137.43			
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Gents Toilet	Sqm	1	1.40	1.30		1.82			
	Ladies Toilet	Sqm	1	1.55	1.30		2.02			
	Total executed quantity						141.27			
	Modified Schedule B quantity						141.27			
	DPQ Quantity Paid in 1st RA Bill						137.43			
	Now to be Paid Quantity						3.84	1191.00	4567.485	
Item No.71	KSRB 14.14-5 : Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. ceramic tiles 15X15cms 6mm thick									
Measurements taken on										
	Quantity Measured in 1st RA Bill						38.37			
	Present Bill Measurements									
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Gents Toilet									
	Along long direction	Sqm	1	1.40		2.10	2.94			

CONTRACTOR

30.10.2024
ASSISTANT ENGINEER

30/10/2024
ASSISTANT EXECUTIVE ENGINEER

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Chainage in m	Description of Item	Unit	No	L (m)	B (m)	D (m)	Qty	Rate (Rs)	Amount (Rs)	Remarks
	Along short direction	Sqm	1	1.30		2.10	2.73			
	Ladies Toilet									
	Along long direction	Sqm	1	1.55		2.10	3.26			
	Along short direction	Sqm	1	1.30		2.10	2.73			
	Deduction									
	D3		-2	0.75		2.10	-3.15			
						Total executed quantity	46.88			
						Modified Schedule B quantity	46.88			
						DPQ Quantity Paid in 1st RA Bill	38.37			
						Now to be Paid Quantity	8.51	935.00	7952.175	
Item No.72	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes. 20mm dia CPVC pipe									
Measurements taken on										
	Quantity Measured in 1st RA Bill						30.00			
	Present Bill Measurements									
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Toilet	m	1	20			20.00			
						Total executed quantity	50.00			
						Modified Schedule B quantity	50.00			
						DPQ Quantity Paid in 1st RA Bill	30.00			
						Now to be Paid Quantity	20.00	126.00	2520.00	
Item No.75	Providing white vitreous china clay indian pattern squatting urinals with white glazed foot rests of approved quality and make conforming to ISI specifications and fixing in position with M-15 as directed of size 50.8 cms X 38 cms X 10.16 CMS - A grade(Rate includes cost of all materials, and conveyance to work spot).									
Measurements taken on										
	Quantity Measured in 1st RA Bill						4.00			
	Present Bill Measurements									
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Toilet	Each	(3) Nil				~~3.00~~ Nil			
						Total executed quantity	~~7.00~~ 4 Nos			
						Modified Schedule B quantity	7.00			
						DPQ Quantity Paid in 1st RA Bill	4.00	Nil	Nil	
						Now to be Paid Quantity	~~3.00~~	981.00	2943.00	
Item No.76	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).									
Measurements taken on										
	Quantity Measured in 1st RA Bill						5.00			
	Present Bill Measurements									
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Toilet	Each	4				4.00			
						Total executed quantity	9.00			
						Modified Schedule B quantity	9.00			
						DPQ Quantity Paid in 1st RA Bill	5.00			
						Now to be Paid Quantity	4.00	288.00	1152.00	

CONTRACTOR

30.10.2024
ASSISTANT ENGINEER

30/10/2024
ASSISTANT EXECUTIVE ENGINEER

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Chainage in m	Description of Item	Unit	No	L (m)	B (m)	D (m)	Qty	Rate (Rs)	Amount (Rs)	Remarks
Item No.77	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3									
Measurements taken on										
	Quantity Measured in 1st RA Bill						15.00			
	Present Bill Measurements									
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Toilet	Each	8				8.00			
	Total executed quantity						23.00			
	Modified Schedule B quantity						23.00			
	DPQ Quantity Paid in 1st RA Bill						15.00			
	Now to be Paid Quantity						8.00	233.00	1864.00	
Item No.78	KSRB 12-8.1 : Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.									
Measurements taken on										
	Quantity Measured in 1st RA Bill						4.00			
	Present Bill Measurements									
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
		Nos	2				2.00			
	Total executed quantity						6.00			
	Modified Schedule B quantity						6.00			
	DPQ Quantity Paid in 1st RA Bill						4.00			
	Now to be Paid Quantity						2.00	7120.00	14240.00	
Item No.79	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I/M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, including cost of materials, labour complete as per specification.									
Measurements taken on										
	Quantity Measured in 1st RA Bill						5.00			
	Present Bill Measurements									
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Toilet	Each	4 2Nos				4.00	2Nos		
	Total executed quantity						9.00	7Nos		
	Modified Schedule B quantity						9.00			
	DPQ Quantity Paid in 1st RA Bill						5.00		10376.00	
	Now to be Paid Quantity						4.00	5188.00	20752.00	

2Nos

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Chainage in m	Description of Item	Unit	No	L (m)	B (m)	D (m)	Qty	Rate (Rs)	Amount (Rs)	Remarks
Item No.80	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11									
Measurements taken on										
	Quantity Measured in 1st RA Bill						3.00			
	Present Bill Measurements									
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Toilet	Each	2				2.00			
	Total executed quantity						5.00			
	Modified Schedule B quantity						5.00			
	DPQ Quantity Paid in 1st RA Bill						3.00			
	Now to be Paid Quantity						2.00	3930.00	7860.00	
Item No.89	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4									
Measurements taken on										
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Toilet									
	Along long direction	Sqm	1	3.05		3.3	10.07			
	Along short direction	Sqm	1	1.3		3.3	4.29			
	Deduction									
	D3	Sqm	2	0.75		2.1	-3.15			
	Through lintel									
	Along long direction	Sqm	2	3.25		0.20	-1.30			
	Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in ward no 06 Byatarayanapura Sub Division									
	Compound Wall	Sqm	1	131		1.35	176.85			
	Total executed quantity						186.76			
	Tender quantity						87.33			
	Now to be Paid Quantity									
	Quantity upto 125%						109.16	947.00	103376.89	103375.00
	Quantity Above 125%						77.59	922.32	71564.85	71561.00
Item No.95	PVC DOOR Shutter : Supply and fixing of doors shuttersmade of rigid PVC extruded hollow section of 20mm X 200mm with the wall thickness of 1.0mm + /0.1mm equally divided into 4nos with tongue and groove locking arrangements. The shutter frame is made of 58*24 mm with the wall thickness of 1.5mm+/-0.15mm section metricut and joined at 4 corners with 125mmX225mm plastic brackets. The shitter shall be horizontally reinforced with 2nos of 8mm PVC rods. Teak wood battons shall be reinforced inside the door shutter during the fabrication of the door shutter at those points wherever the hardware is fixed on to the door shutter									
Measurements taken on										
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	D3	Sqm	2	0.75		2.1	3.15			
	Total executed quantity						3.15			
	Modified Schedule B quantity						3.15			
	Now to be Paid Quantity						3.15	1780.00	5607.00	

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Chainage in m	Description of Item	Unit	No	L (m)	B (m)	D (m)	Qty	Rate (Rs)	Amount (Rs)	Remarks
Item No.107	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. (P.NO - 6, I.NO - 2.11, PWD SR 16-17)									
		Cum								
	Vide Total executed Quantity from premeasurement Page no. 12						**13.62**			
	Total executed quantity						**13.62**			
	Modified Schedule B quantity						**13.62**			
	Now to be Paid Quantity						**13.62**	**128.00**	**1742.83**	
E1	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 16, Item No 4.28									
		Cum								
	Vide Total executed Quantity from premeasurement Page no. 13						**28.77**			
	Total executed quantity						**28.77**			
	Now to be paid quantity						**28.77**	**260.92**	**7506.63**	
E2	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.177 Item No.22.6.1									
Measurements taken on										
	Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in ward no 06 Byatarayanapura Sub Division									
	2nd main road 8th cross	Cum	1	15	6.65	0.15	14.96			
		Cum	1	15	7.15	0.15	16.09			
		Cum	1	12	7.65	0.15	13.77			
						Total executed quantity	**44.82**			
						Now to be paid quantity	**44.82**	**5375.51**	**240930.25**	

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Executive Engineer.

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Chainage in m	Description of Item	Unit	No	L (m)	B (m)	D (m)	Qty	Rate (Rs)	Amount (Rs)	Remarks
E3	Fabricating, supplying and erecting M.S. Tubular Truss of all spans as per approved drawing and design with prefabricated steel application using quality material and are durable, reliable and corrosion and abrasion resistant.Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design guage and polish. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S pipes and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification. (Page No. 40 Item No. 7.29 of CSR 2016-17).									
Measurements taken on										
	Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in ward no 06 Byatarayanapura Sub Division									
	Page - 102 Sub - page - (9.T.O)						From Steel Calculation	2546.80		
							Total executed quantity	**2546.80**	112.30	285903.00
							Now to be paid quantity	**2546.80**	**112.26**	**285892.28**
E4	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses									
Measurements taken on										
	Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in ward no 06 Byatarayanapura Sub Division									
	Along Long Direction	Sqm	1	9.2	4.63			42.60		
	Along Short Direction	Sqm	1	8.9	4.00			35.60		
							Total executed quantity	**78.20**	695.80	54411.00
							Now to be paid quantity	**78.20**	**695.78**	**54407.42**
E5	Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification. page no 69 item no 10.5.1									
Measurements taken on										
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Toilet	Sqm	1	3.25	1.50			4.88		
							Total executed quantity	**4.88**	532.00	2596.00
							Now to be paid quantity	**4.88**	**531.95**	**2593.26**

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NAME OF THE WORK: Package-1, includes 10 works of Rs.80.00 Lakhs 1) Addition and alteration works and construction of Tiolet at Existing Help point building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 2)Construction of Lead of Drains to Connect storm water drains at Bhagyashree layout, in Ward no.06 Byatarayanapura Sub Division 3)Constructing Drains in Hegadenagara Hindu Burial Ground in Ward no . 06 Byatarayanapura Sub Division 4)Construction of toilets in Dasarahalli in ward No. 06 Byatarayanapura Sub Division 5)Detailed Estimate for the Work of Repairs and Maintenance of Existing Dry waste collection center Building at Hegdenagara in Ward No. 06 Byatarayanapura Sub Division 6)Maintenance of community property including parks in ward no 07 byatarayanapura 7)Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura 8)Maintenance of general public toilets in Ward No. 07 Byatarayanapura. 9)Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura. 10)Desilting of Storm Water Drains in ward no:07 Byatarayanapura

Steel calculation sheet

MEASUREMENT SHEET

Third & Final Bill

SL NO	Item	NO's	NO. OF ELEMENTS	TOTAL NO.	LENGTH	TOTAL LENGTH	WEIGHT /m	Weight	
					m	m	Kg/m	Kg	
E3	Fabricating, supplying and erecting M.S. Tubular Truss of all spans as per approved drawing and design with prefabricated steel application using quality material and are durable, reliable and corrosion and abrasion resistant.Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design guage and polish. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S pipes and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specification. (Page No. 40 Item No. 7.29 of CSR 2016-17).								
1	Column								
	CHS OD 76.1@ 7.930kg/m	7	1	7	2.85	19.95	7.93	158.29	
2	TRUSS								
	SHS 172x92x5.4 Th @20.88 kg/m	6	1	6	4.63	27.78	20.88	580.16	
	SHS 175x92x5.4 Th @20.88 kg/m	7	1	7	4.00	28.00	20.88	584.75	
3	PURLIN								
	SHS 80x40x4.8 Th @7.85kg/m	7	1	7	9.2	64.4	7.85	505.80	
	SHS 80x40x4.8 Th @7.85kg/m	4	1	4	8.9	35.6	7.85	279.60	
						TOTAL QUANTITY IN Kg		2108.60	

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Base plate

Sl NO	DESCRIPTION OF ITEMS	NO's	L	B	D	VOLUME	WEIGHT /PLATE (7850 Kg/m^3)	TOTAL WEIGHT	
			m	m	m	m^3	weight		
4	BASE PLATE 2 nos 400X400X16mm TH(Bottom)	14	0.4	0.4	0.016	0.003	20.10	281.34	
	BASE PLATE 1 nos 400X400X16mm TH(Top)	7	0.4	0.4	0.016	0.003	20.10	140.67	
							TOTAL QUANTITY IN Kg	422.02	

Bolt Calculation

	Description	nos of elements	nos of bolts	total numbers	BAR DIA IN mm	L in m	TOTAL Length in m	Weight in kg/m	Total weight Kg's
5	Bolts								
	Anchor bolt	7	4	28	16	0.7	19.6	1.578336	6.31
	Anchor bolt	7	4	28	20	0.2	5.6	2.46615	9.86
							TOTAL QUANTITY IN Kg		16.18
							TOTAL STEEL QUANTITY IN Kg		2546.80
							TOTAL STEEL QUANTITY IN TONNE		2.55

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Chainage in m	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount	Remarks
E6	KSRB15-5.2 : Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.									
Measurements taken on										
	Construction of to toilets in Dasarahalli in ward no 06 Byatarayanapura Sub Division									
	Gents Toilet									
	Along long direction	Sqm	1	1.40		2.10	2.94			
	Along short direction	Sqm	1	1.30		2.10	2.73			
	Ladies Toilet									
	Along long direction	Sqm	1	1.55		2.10	3.26			
	Along short direction	Sqm	1	1.30		2.10	2.73			
	Deduction									
	D3	Sqm	-2	0.75		2.10	-3.15			
						Total executed quantity	8.51			
						Now to be paid quantity	8.51	194.17	1651.43	
E7	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. KBS Pg No 7, Item No 2.15									
		Cum								
	Vide Total executed Quantity from premeasurement Page no. 14.						12.36			
						Total executed quantity	12.36		30362.00	
						Now to be paid quantity	12.36	2456.48	30354.68	
								Sub Total	2212796.55	
								GST 12%	265535.59	
								Grand Total	2478332.13	

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